GVMAX

Self-Regulating Vacuum Pumps

(Electric Vacuum and Blow-off Control)

The communication between both elements, electronic vacuum switch and gripping valve control, enables the consumption of compressed air to be regulated and in particular significantly reduced. This range of vacuum pumps is strongly recommended for gripping airtight objects, clamping, and for medium or long cycles. Electrically controllable blow-off is integrated for release.



Industry-specific applications





Materials

PA 6-6 15% FV, POM, PC 15% FV, brass, aluminum, NBR.

Safety

The GVMAX E1 has a non-return valve installed as standard which enables it to maintain the vacuum within the circuit if there is a power failure. This function guarantees maximum safety conditions for operators during handling.

Characteristics														
model	Ø nozzle	max. vacuum (%)			air dra	awn in 1)		L2 (mm)		O (g)				
	(mm)	X	T	N	X	T	N	S	K ⁽¹⁾					
GVMAX E1	2.5	50	75	90	12.71	8.48	7.06	60	121	510				

⁽¹⁾ delivered as standard on version X.

Evacuation Time in Seconds per Liter																							
% vacuum	Ø nozzle	10			20		30		35	40			45	50		60		70		80	85		
versions	(mm)	Χ	T	N	X	T	N	X	T	N	X	X	T	N	X	T	N	T	N	T	N	N	N
GVMAX E1	2.5	0.02	0.03	0.03	0.04	0.06	0.07	0.08	0.10	0.11	0.01	0.14	0.14	0.16	0.19	0.21	0.22	0.30	0.30	0.50	0.41	0.60	0.77

Operating Principle

When the selected vacuum level is reached, the compressed air supply stops. This interruption does not have any effect as the non-return valve maintains the vacuum and thus the grip. The vacuum switch continually analyzes the vacuum requirements. As soon as the minimum threshold is reached, it activates the vacuum generation valve to return to the pre-set value.

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Specifications Non-lubricated filtered air, 2 to 6 bar, VlaauS optimum at 4 bar Temperature 32 to 140 °F PNP switching output NO or NC **Contact output** adjustable hysteresis Anti-parasite function Integrated with display LED Suction rate Adjusted by flow restrictor

Curves: see page 8/43

Dimensions

- (**1**) (**2**) LED gripping display
 - Compressed air input
- LED blow-off display
- (3) (4) (5) (6) (7) Vacuum G1/2"-F Gas
- PSA100C vacuum switch
- G1/4"-F
- White: Contact output
- Brown: 24 V DC (gripping)
- Blue: common
- (10) Black: 24 V DC (blow-off)





